

Amendments to the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

1-13. (Cancelled)

14. (Currently Amended) An aircraft roller system comprising:

a) an aircraft including an aircraft cargo storage bay; and

a roller mounted within the aircraft cargo storage bay, the roller configured for loading, unloading, and placement of cargo packages within the aircraft and for supporting the cargo packages during flight of the aircraft, the roller including a one-piece integral body having consisting essentially of a cylindrical shape body, the entirety of the body being made solely out of a single piece of polymeric material, said body having a length extending from a first outermost end to a second outermost end and a diameter, the first outermost end of the body defined by a first outwardly protruding portion that protrudes longitudinally from a first intermediate end to the first outermost end thereby defining a first exterior shoulder between the first outermost end and the first intermediate end, the second outermost end of the body defined by a second outwardly protruding portion that protrudes longitudinally from a second intermediate end to the second outermost end thereby defining a second exterior shoulder between the second outermost end and the second intermediate end; and b) said body including an aperture extending longitudinally along and through the center of said body from the first outermost end to the second outermost end, the aperture sized to rotatably receive an axle therethrough, the axle being for mounting the roller within the aircraft cargo storage bay, wherein said body consists essentially of a polymer, wherein the roller has a burn rate of less than 4.0 inches per minute and is joined to an aircraft storage bay.

15. (Cancelled)

16. (Currently Amended) The aircraft roller system of claim 14, wherein the polymer polymeric material is selected from the group consisting of polysulfone, nylon, polycarbonate,

polyetherimide, polyetherketone, polyphenylene sulfide, and polyvinylidene fluoride and acetyl copolymer.

17. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the ~~polymer~~ polymeric material is acetyl copolymer.

18. (Cancelled)

19. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the roller has ~~further having~~ an impact strength of at least 0.5 ft. lbs./in.

20. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the roller has ~~further having~~ a flexural strength of at least 20 psi.

21. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the roller has ~~further having~~ a compressibility strength of at least 20 psi.

22. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the roller has ~~further having~~ a compressibility strength of at least 200 psi.

23. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the diameter of the body of the roller is between $\frac{1}{4}$ of an inch to 12 inches.

24. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the length of the body of the roller is between $\frac{1}{2}$ of an inch to 25 feet.

25. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the diameter of the body of the roller is between $\frac{1}{2}$ of an inch to 6 inches.

26. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the length of the body of the roller is between 3 inches to 4 inches.

27-29. (Cancelled)

30. (Currently Amended) The aircraft ~~roller~~ system of claim 14, wherein the roller is manufactured by a method comprising the steps of:

- a) obtaining a round stock polymer;
- b) boring an aperture longitudinally through the round stock of polymer; and
- c) cutting the round stock to length.

31. (Currently Amended) The aircraft ~~roller~~ system of claim 30 further comprising the step of detailing ~~ends of~~ the cut round stock to form the first and second intermediate ends.

32. (Currently Amended) The aircraft ~~roller~~ system of claim 30, wherein the ~~polymer~~ polymeric material is selected from the group consisting of polysulfone, nylon, polycarbonate, polyetherimide, polyetherketone, polyphenylene sulfide, and polyvinylidene fluoride and acetyl copolymer.

33. (Currently Amended) The aircraft ~~roller~~ system of claim 30, wherein the ~~polymer~~ polymeric material is acetyl copolymer.

34. (Cancelled)

35. (Cancelled)